

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\
 Data File : BF101643.D
 Acq On : 22 Dec 2017 8:55
 Operator : SJ/JU
 Sample : I6681-07DL 5X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-DDL

Manual Integrations
 APPROVED

Sohil
 12/22/2017 12:42:34 PM

Quant Time: Dec 22 13:37:50 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 20 14:25:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	135604	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	517092	20.00	ng	0.00
38) Acenaphthene-d10	9.83	164	202029	20.00	ng	0.00
63) Phenanthrene-d10	11.32	188	297340	20.00	ng	0.00
75) Chrysene-d12	13.97	240	280196	20.00	ng	0.00
86) Perylene-d12	15.44	264	221725	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	202950	22.29	ng	0.01
7) Phenol-d6	6.44	99	257111	22.69	ng	0.00
23) Nitrobenzene-d5	7.37	82	145583	15.67	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	30900	15.87	ng	0.00
44) 2-Fluorobiphenyl	9.15	172	252361	19.38	ng	0.00
78) Terphenyl-d14	12.90	244	168835	14.53	ng	0.00
Target Compounds						
31) Naphthalene	8.10	128	247735	9.516	ng	99
37) 2-Methylnaphthalene	8.79	142	135562	7.993	ng	100
51) Acenaphthene	9.86	154	85500	6.572	ng	99
54) Dibenzofuran	10.05	168	54331	3.286	ng	97
57) Fluorene	10.38	166	145604	10.411	ng	100
70) Phenanthrene	11.35	178	705300	42.654	ng	98
71) Anthracene	11.40	178	260771	15.439	ng	99
72) Carbazole	11.56	167	33924	2.145	ng	97
74) Fluoranthene	12.55	202	711748	41.008	ng	97
77) Pyrene	12.77	202	831040	39.519	ng	100
80) Benzo(a)anthracene	13.96	228	459162	24.817	ng	98
82) Chrysene	14.00	228	395363	22.632	ng	98
85) Indeno(1,2,3-cd)pyrene	16.92	276	97672	6.279	ng	# 91
87) Benzo(b)fluoranthene	15.02	252	350939m	25.967	ng	
88) Benzo(k)fluoranthene	15.04	252	95420m	7.262	ng	
89) Benzo(a)pyrene	15.38	252	243293	19.528	ng	97
90) Dibenzo(a,h)anthracene	16.91	278	28437m	2.658	ng	
91) Benzo(g,h,i)perylene	17.37	276	105714	9.981	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

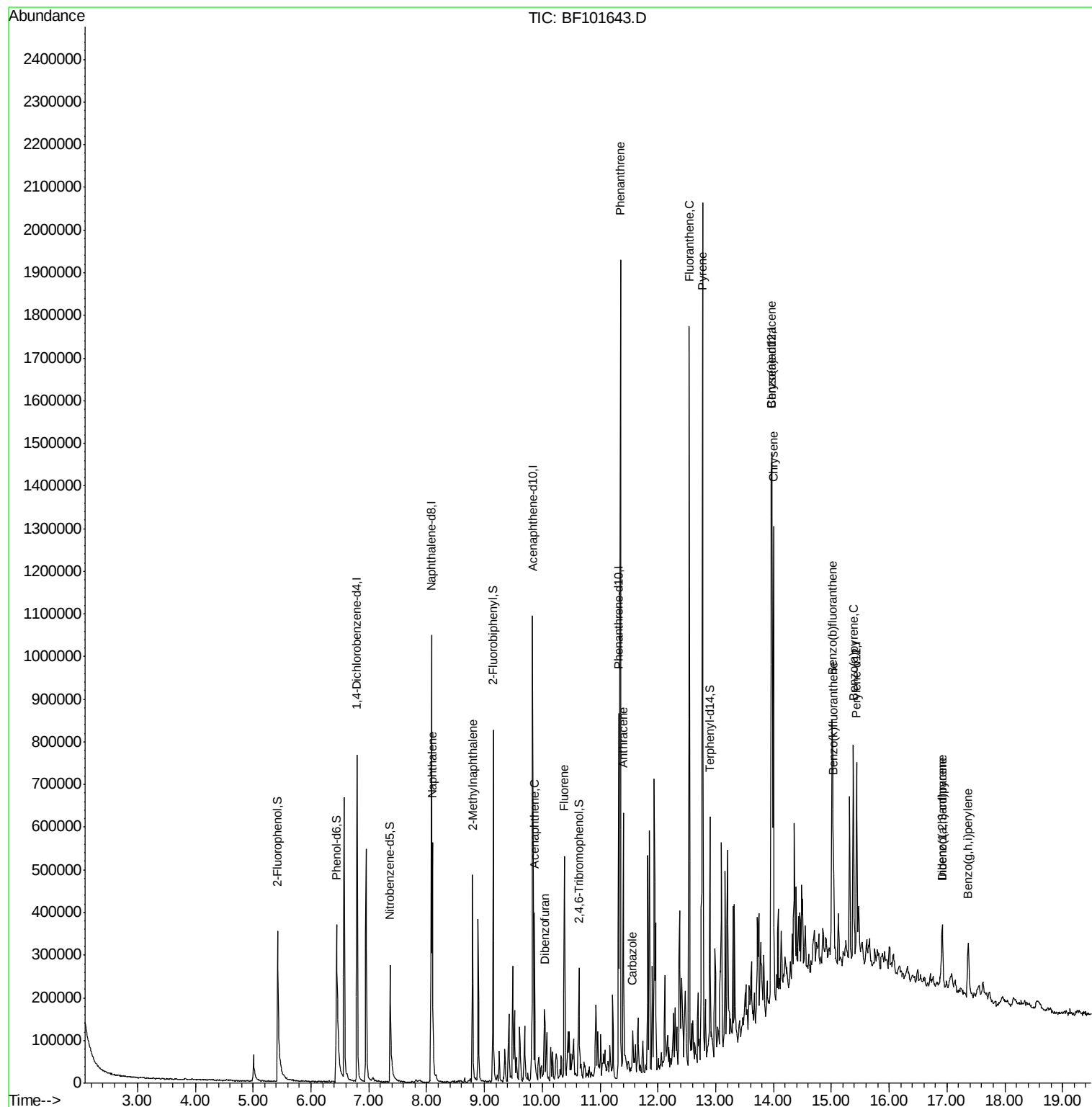
Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\
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ALS Vial : 45 Sample Multiplier: 1

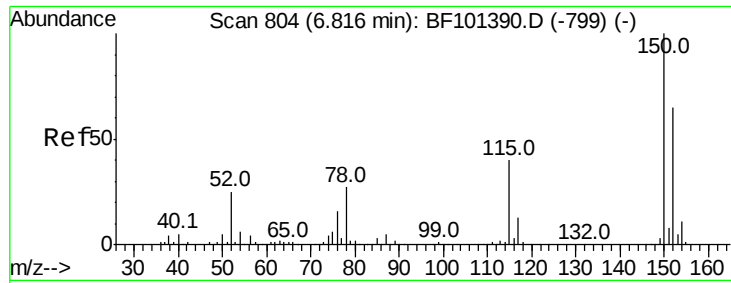
Instrument :
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Quant Time: Dec 22 13:37:50 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration





#1

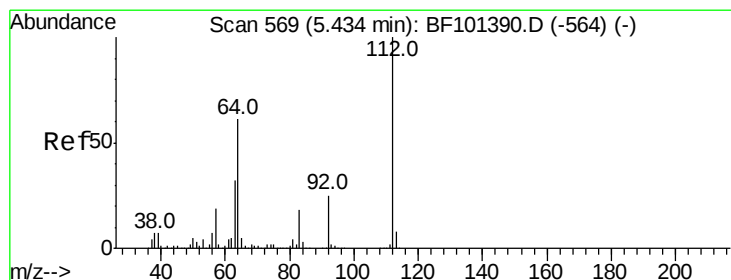
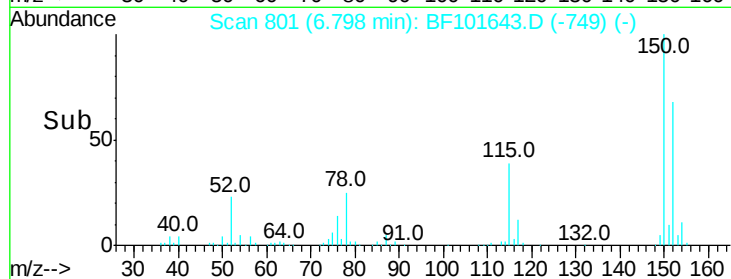
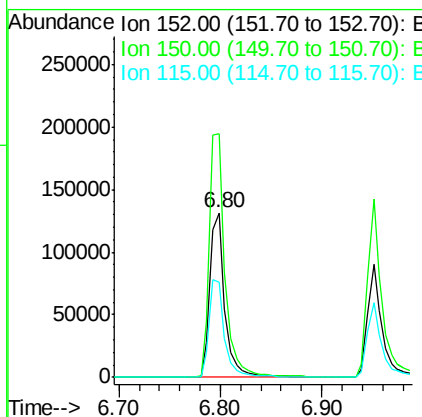
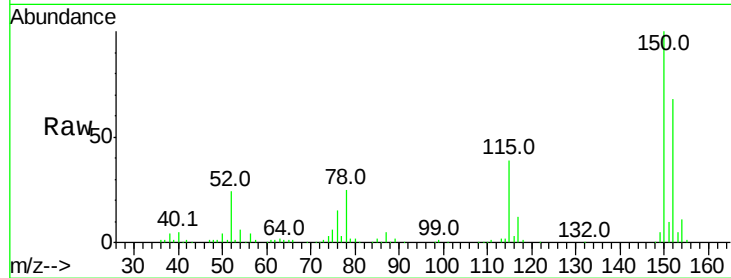
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. 0.01 min
Lab File: BF101643.D
Acq: 22 Dec 2017 8:55

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-DDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	148.0	124.6	186.8
115	58.2	50.1	75.1

Manual Integrations
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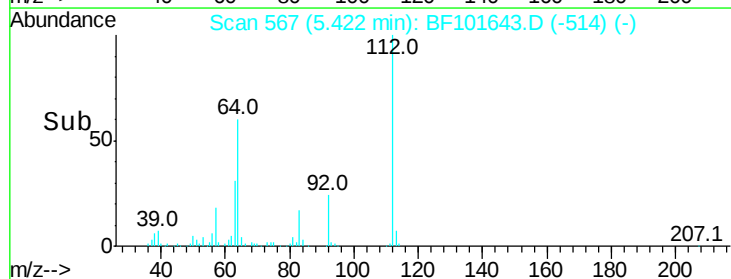
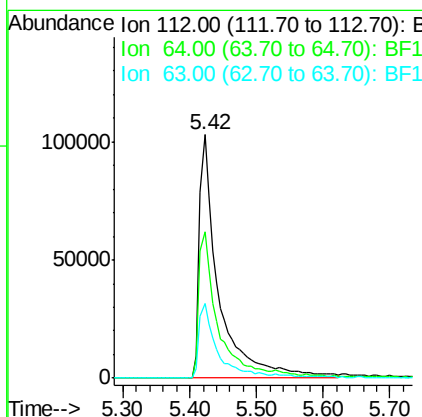
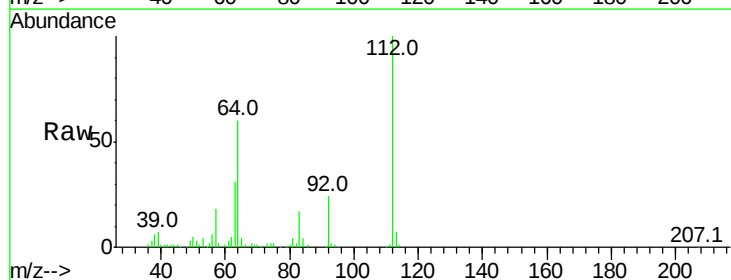
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#5

2-Fluorophenol
Concen: 22.294 ng
RT: 5.42 min Scan# 567
Delta R.T. 0.01 min
Lab File: BF101643.D
Acq: 22 Dec 2017 8:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.2	47.9	71.9
63	30.8	23.7	35.5





#7

Phenol-d6

Concen: 22.694 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.00 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Instrument :

BNA_F

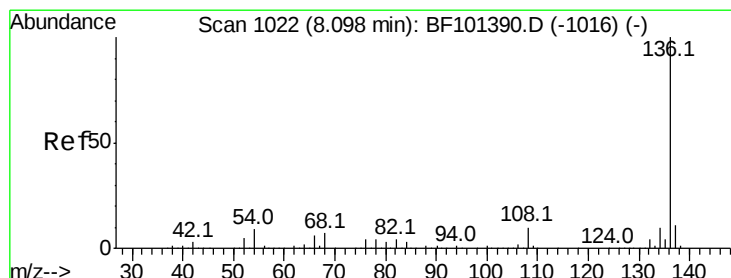
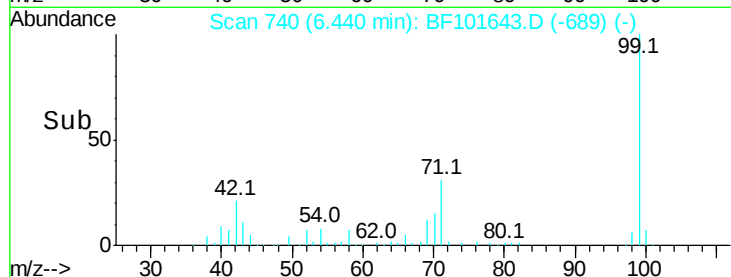
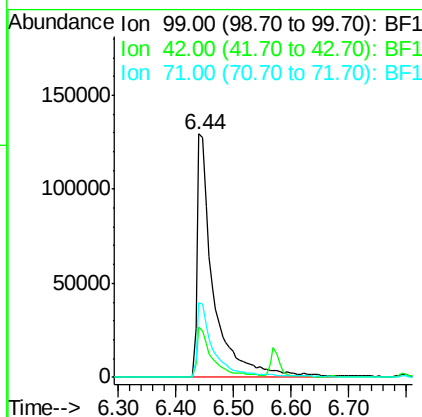
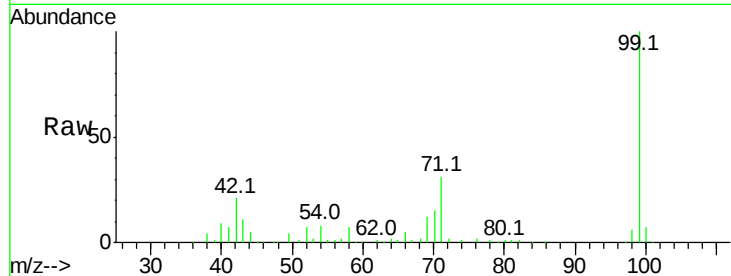
ClientSampleId :

PL-01-121917-DDL

Tot Ion:	99	Resp:	257111
Ion Ratio	Lower	Upper	
99	100		
42	20.8	14.5	21.7
71	30.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

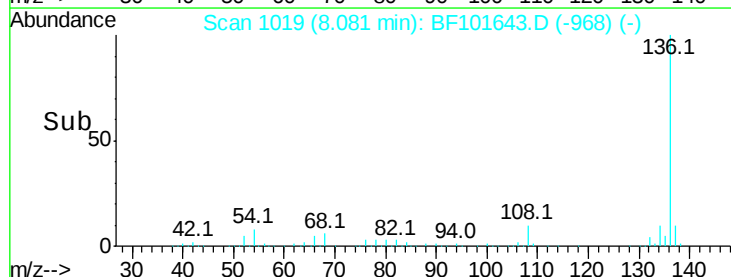
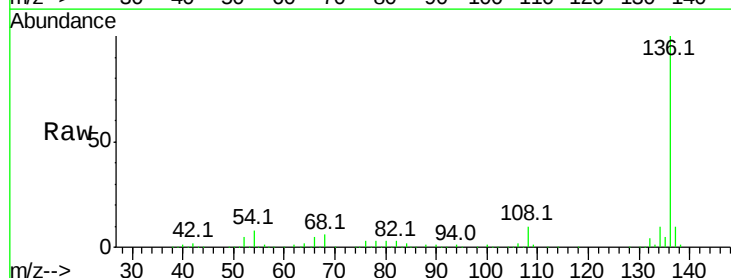
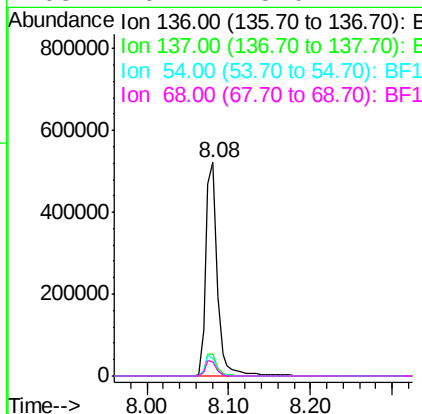
RT: 8.08 min Scan# 1019

Delta R.T. 0.00 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Tgt Ion:	136	Resp:	517092
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.9	13.3
54	8.4	6.6	9.8
68	6.4	5.0	7.4





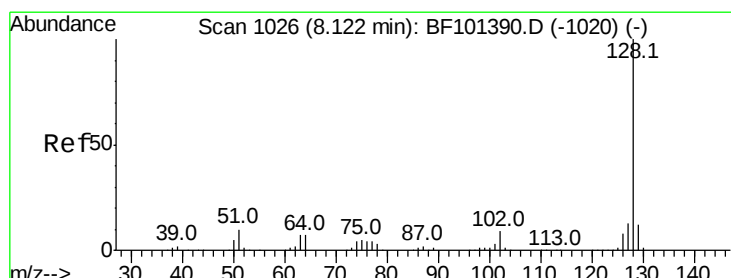
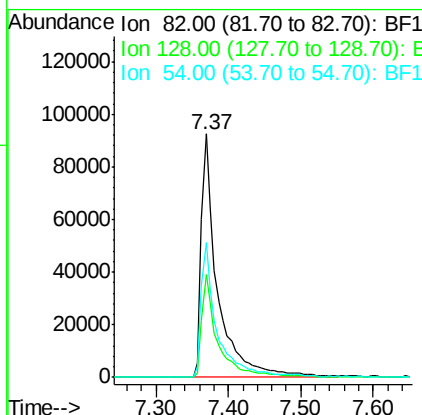
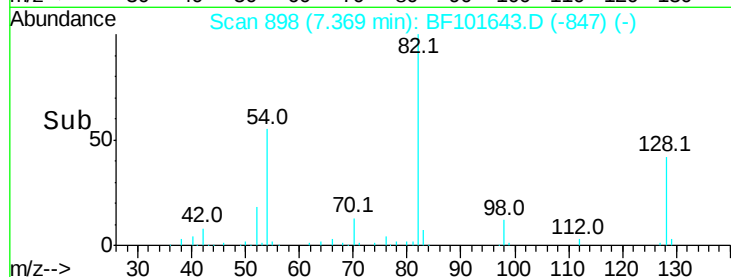
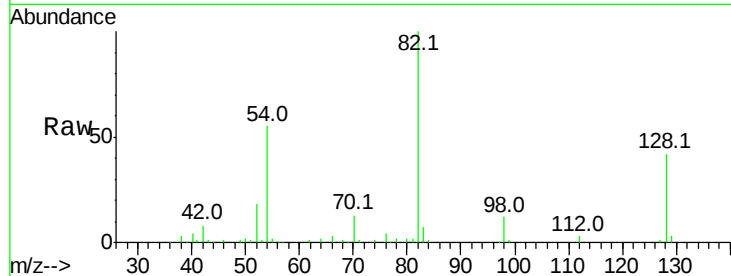
#23
 Nitrobenzene-d5
 Concen: 15.672 ng
 RT: 7.37 min Scan# 898
 Delta R.T. 0.00 min
 Lab File: BF101643.D
 Acq: 22 Dec 2017 8:55

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-DDL

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	42.3	36.1	54.1	
54	55.2	41.4	62.2	

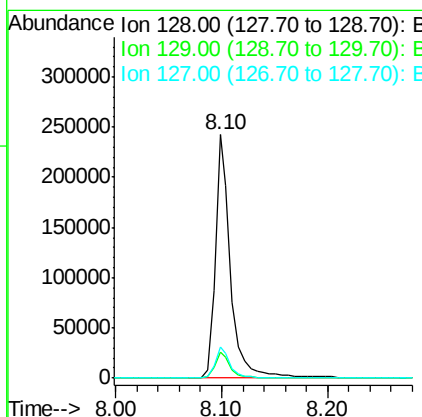
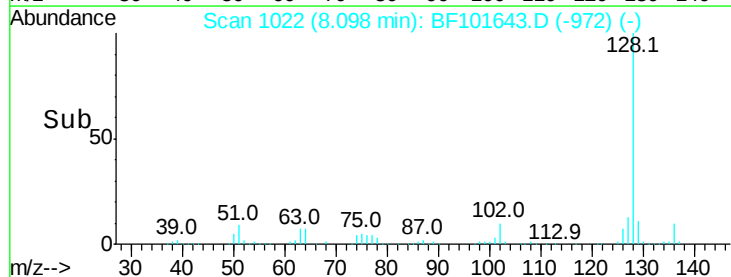
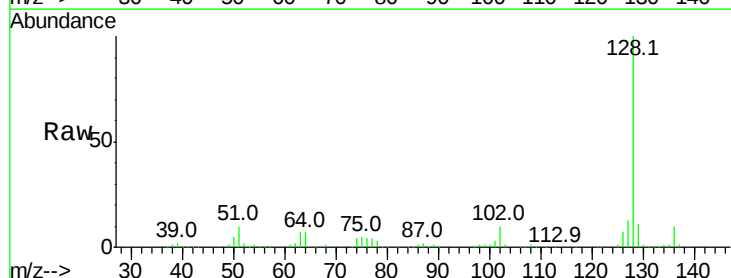
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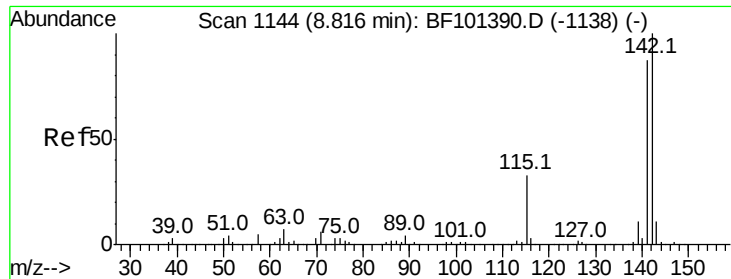
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#31
 Naphthalene
 Concen: 9.516 ng
 RT: 8.10 min Scan# 1022
 Delta R.T. -0.01 min
 Lab File: BF101643.D
 Acq: 22 Dec 2017 8:55

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.9	8.8	13.2	
127	13.0	10.9	16.3	





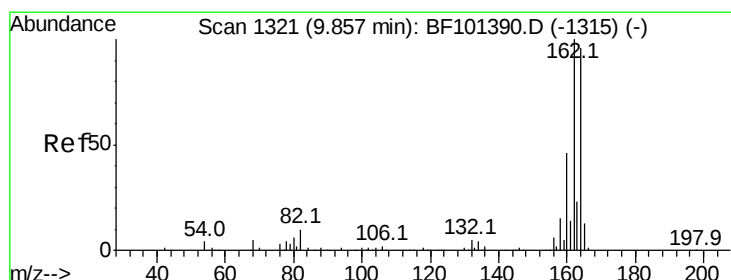
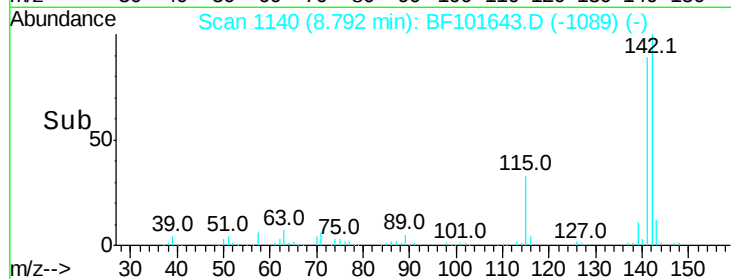
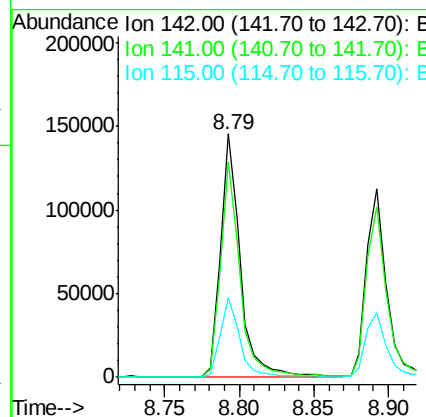
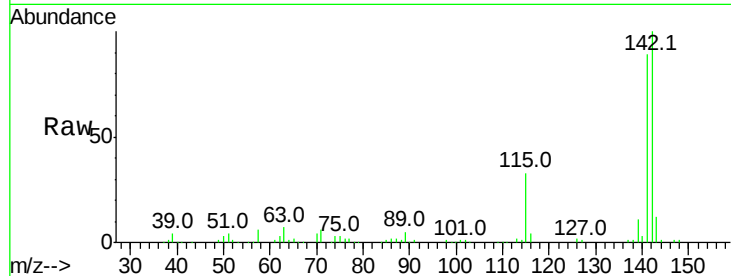
#37
2-Methylnaphthalene
Concen: 7.993 ng
RT: 8.79 min Scan# 1140
Delta R.T. 0.00 min
Lab File: BF101643.D
Acq: 22 Dec 2017 8:55

Instrument :
BNA_F
ClientSampled :
PL-01-121917-DDL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	135562		
141	88.6	70.8	106.2	
115	32.7	26.1	39.1	

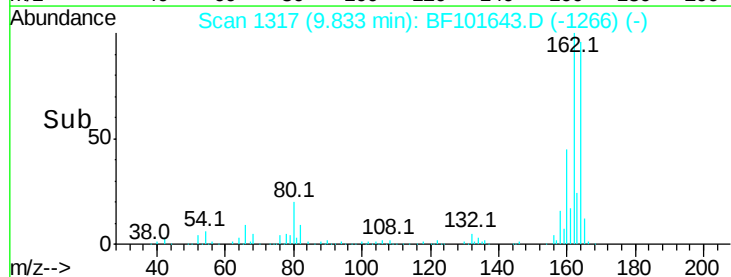
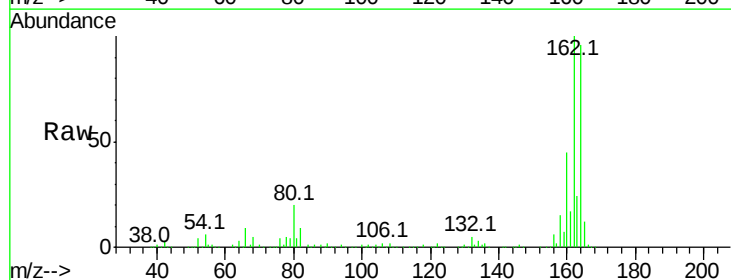
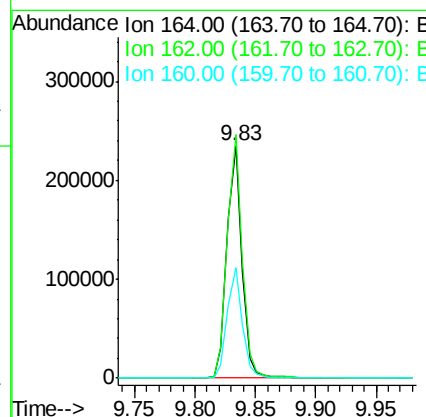
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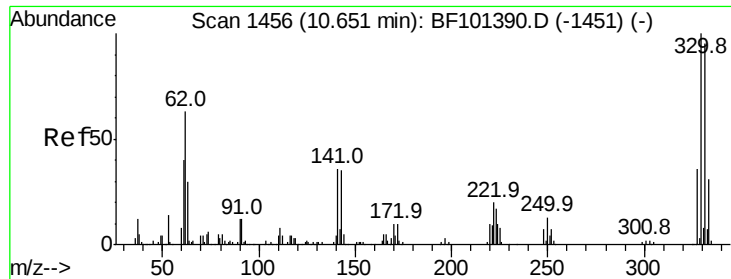
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. 0.00 min
Lab File: BF101643.D
Acq: 22 Dec 2017 8:55

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	202029		
162	104.7	86.1	129.1	
160	47.4	38.3	57.5	





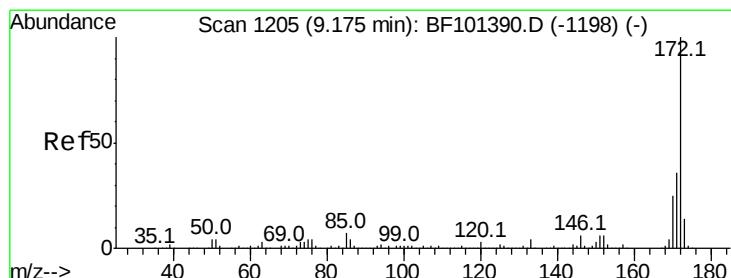
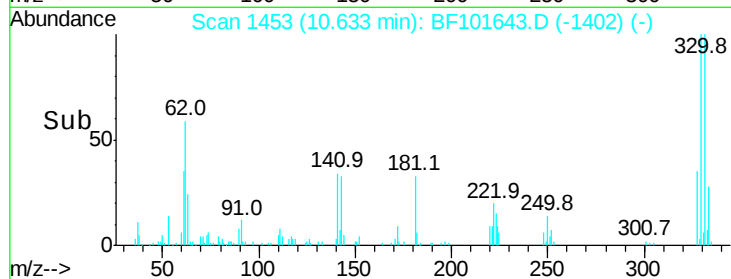
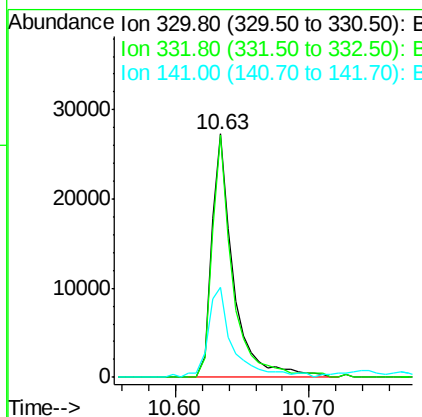
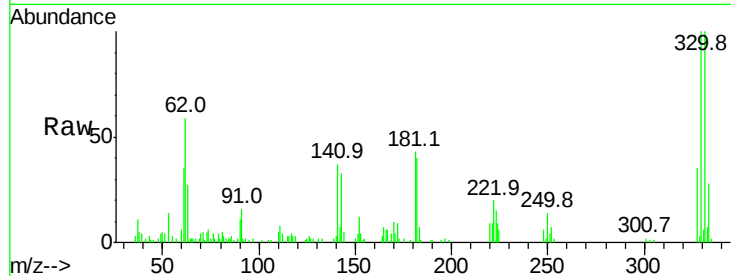
#41
 2,4,6-Tribromophenol
 Concen: 15.873 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. 0.00 min
 Lab File: BF101643.D
 Acq: 22 Dec 2017 8:55

Instrument :
 BNA_F
 ClientSampled :
 PL-01-121917-DDL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.1	77.0	115.6	
141	42.7	29.9	44.9	

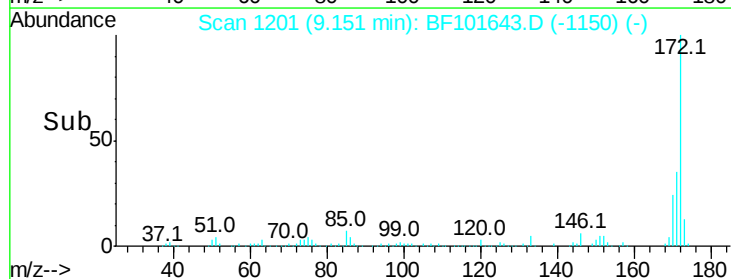
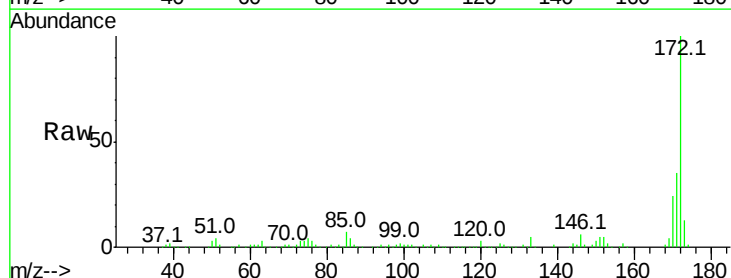
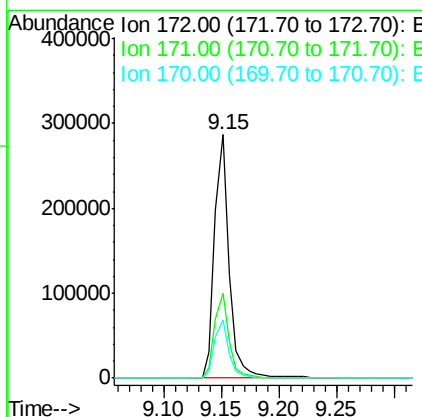
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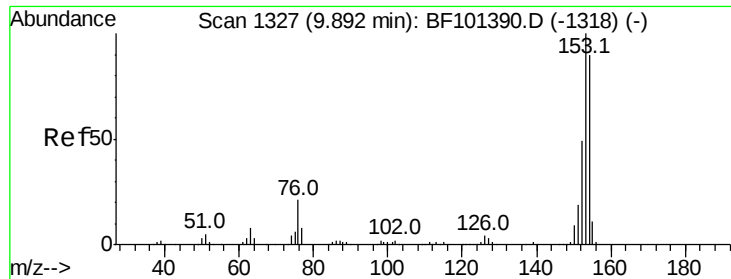
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#44
 2-Fluorobiphenyl
 Concen: 19.377 ng
 RT: 9.15 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: BF101643.D
 Acq: 22 Dec 2017 8:55

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.0	29.7	44.5	
170	24.1	19.6	29.4	





#51

Acenaphthene

Concen: 6.572 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Instrument :

BNA_F

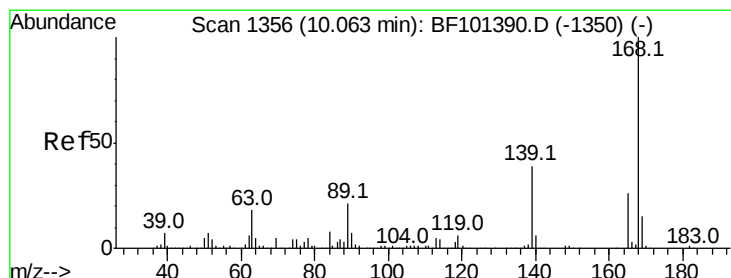
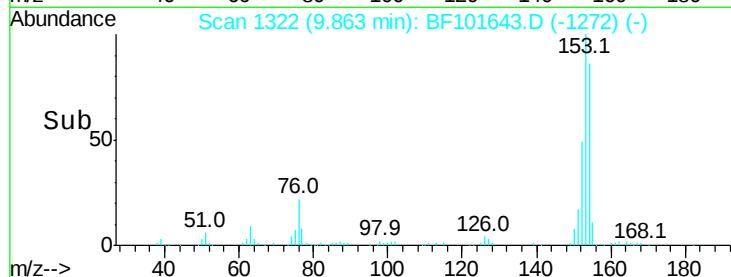
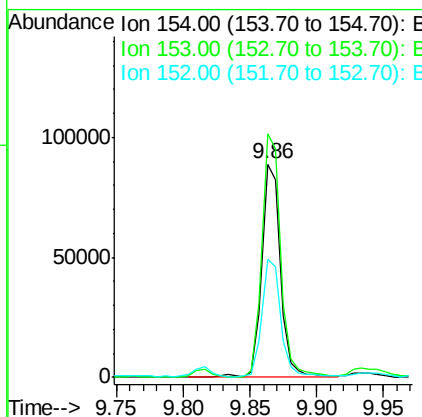
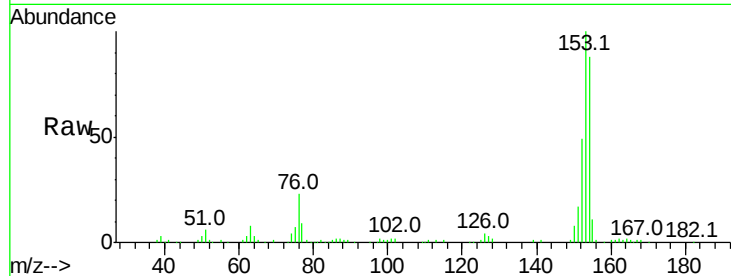
ClientSampleID :

PL-01-121917-DDL

Tot Ion:	154	Resp:	85500
Ion Ratio	Lower	Upper	
154	100		
153	114.3	91.2	136.8
152	55.7	43.8	65.8

Manual Integrations
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#54

Dibenzofuran

Concen: 3.286 ng

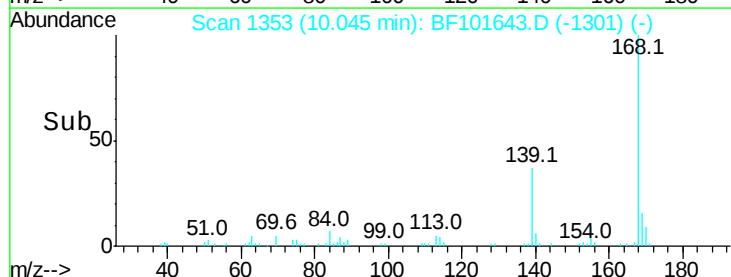
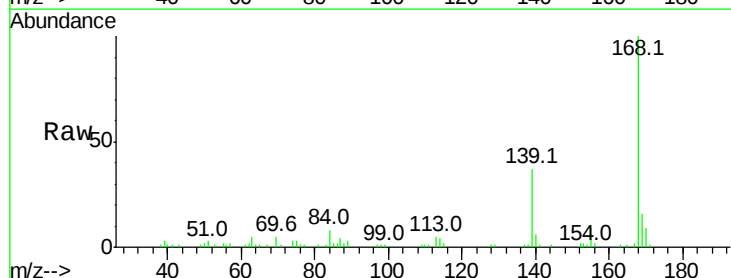
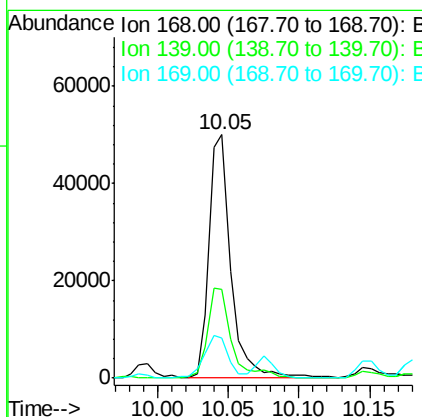
RT: 10.05 min Scan# 1353

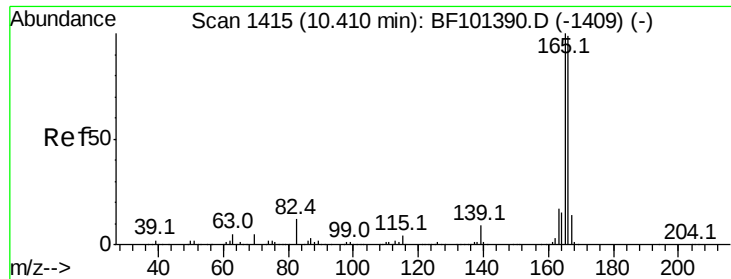
Delta R.T. 0.01 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Tgt Ion:	168	Resp:	54331
Ion Ratio	Lower	Upper	
168	100		
139	36.7	30.1	45.1
169	16.3	10.9	16.3





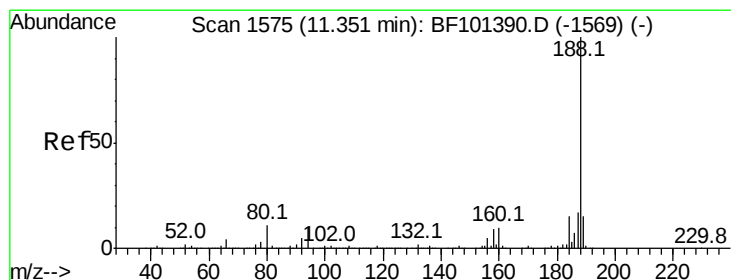
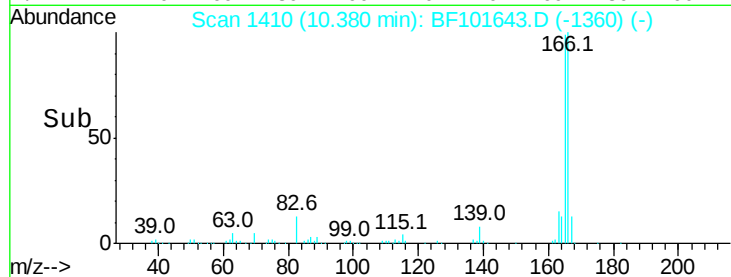
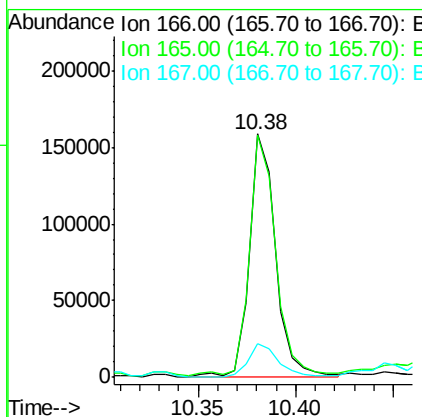
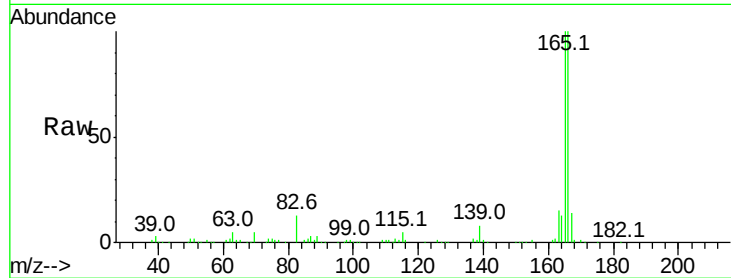
#57
 Fluorene
 Concen: 10.411 ng
 RT: 10.38 min Scan# 1410
 Delta R.T. -0.01 min
 Lab File: BF101643.D
 Acq: 22 Dec 2017 8:55

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-DDL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	145604		
165	99.6	79.8	119.8	
167	13.8	10.6	16.0	

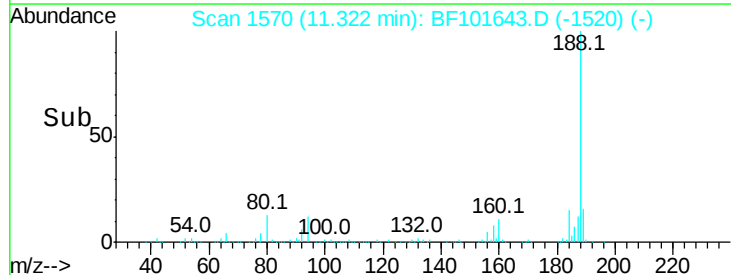
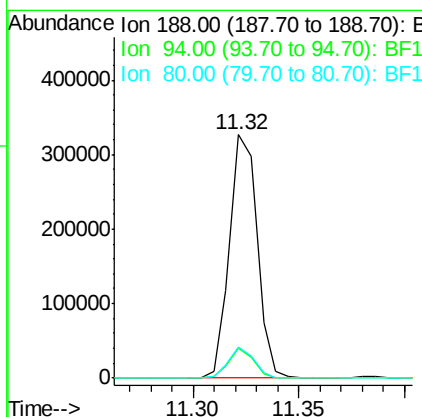
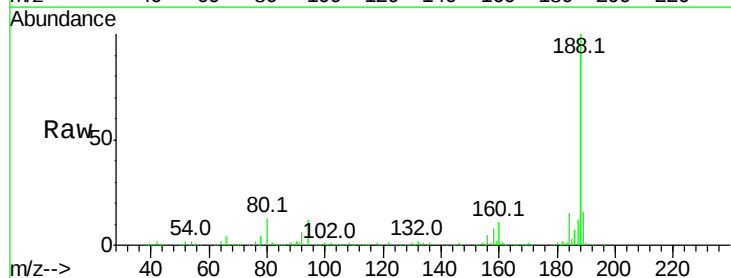
Manual Integrations
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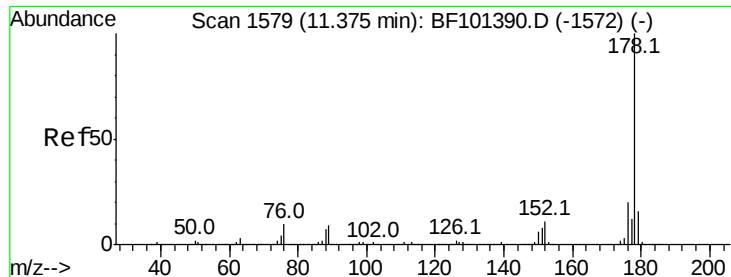
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#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: BF101643.D
 Acq: 22 Dec 2017 8:55

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	297340		
94	12.0	8.5	12.7	
80	12.6	9.2	13.8	





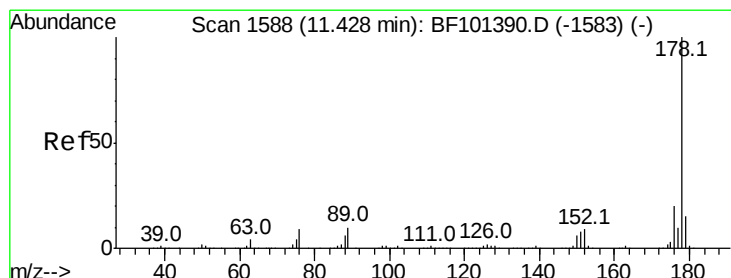
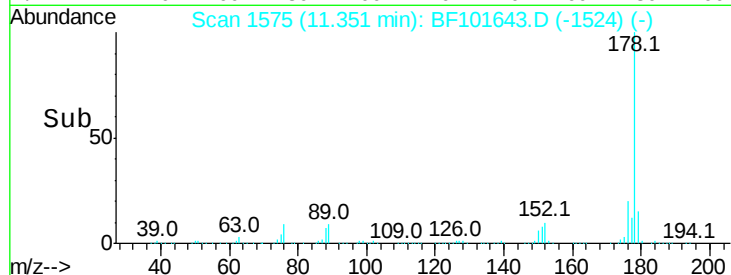
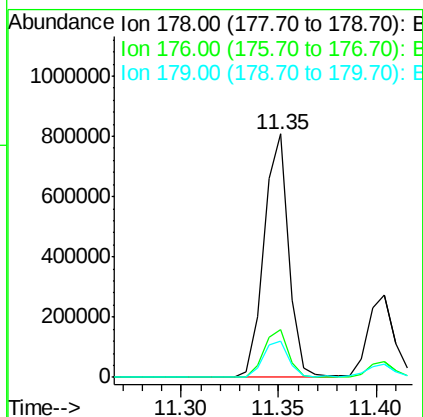
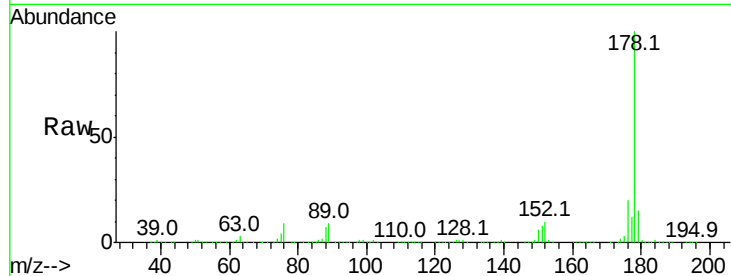
#70
Phenanthrene
Concen: 42.654 ng
RT: 11.35 min Scan# 1575
Delta R.T. 0.00 min
Lab File: BF101643.D
Acq: 22 Dec 2017 8:55

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-DDL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	14.9	13.0	19.6

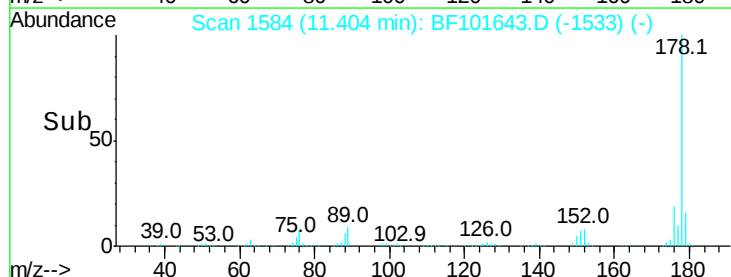
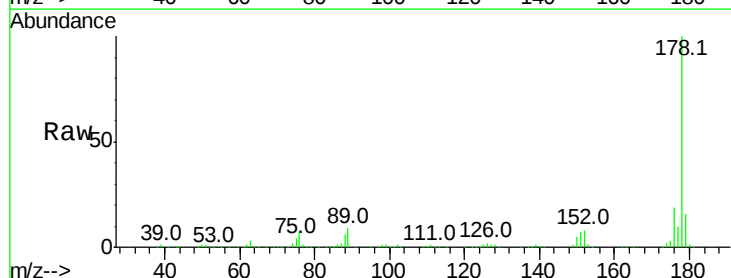
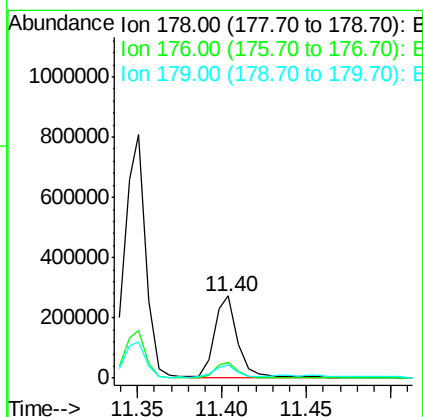
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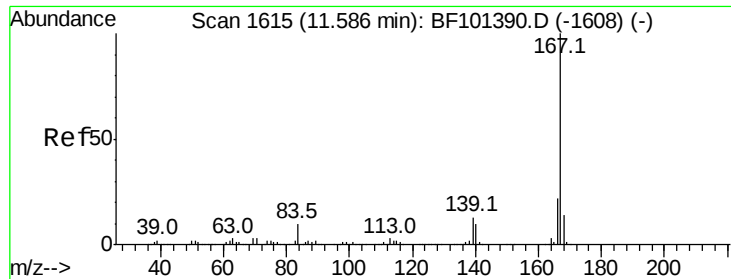
Sohil
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#71
Anthracene
Concen: 15.439 ng
RT: 11.40 min Scan# 1584
Delta R.T. 0.00 min
Lab File: BF101643.D
Acq: 22 Dec 2017 8:55

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	15.7	12.6	19.0





#72

Carbazole

Concen: 2.145 ng

RT: 11.56 min Scan# 1611

Delta R.T. 0.00 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Instrument :

BNA_F

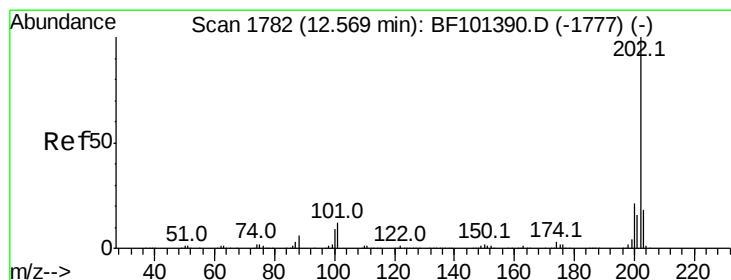
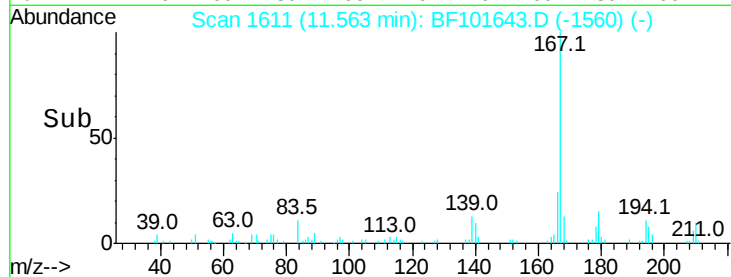
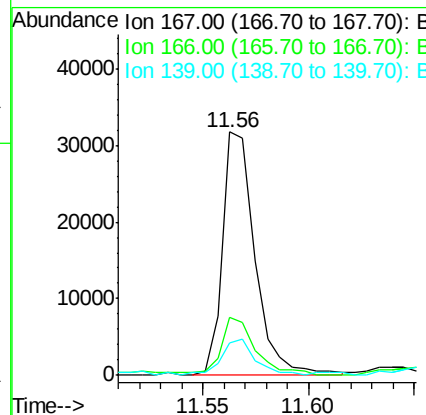
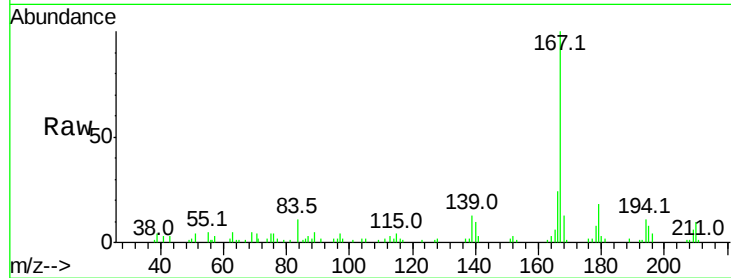
ClientSampleId :

PL-01-121917-DDL

Tot Ion:	167	Resp:	33924
Ion Ratio	Lower	Upper	
167	100		
166	23.7	17.6	26.4
139	13.3	10.9	16.3

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#74

Fluoranthene

Concen: 41.008 ng

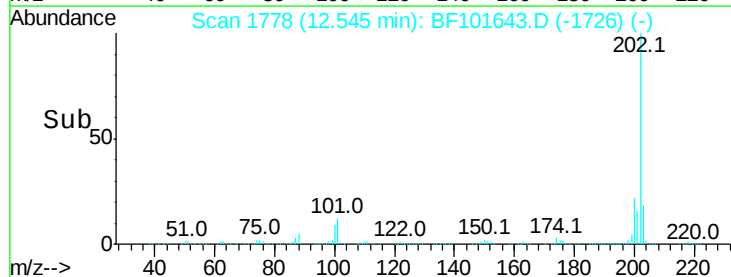
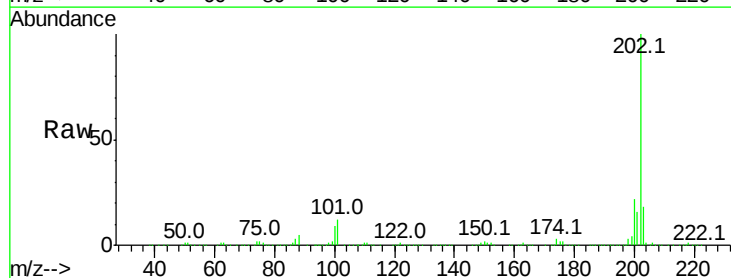
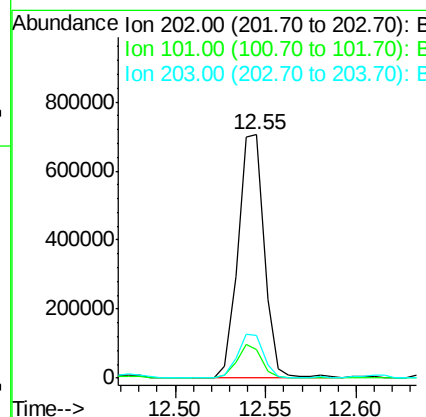
RT: 12.55 min Scan# 1778

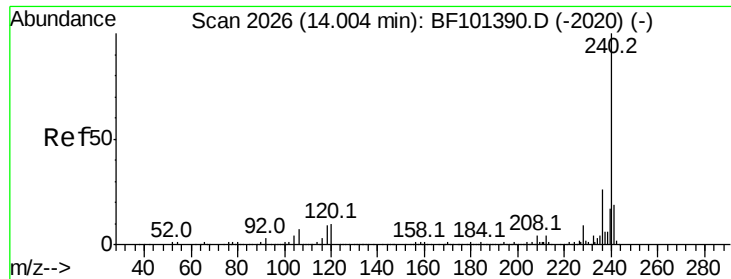
Delta R.T. 0.01 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Tgt Ion:	202	Resp:	711748
Ion Ratio	Lower	Upper	
202	100		
101	12.0	0.0	34.1
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2021

Delta R.T. 0.00 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Instrument :

BNA_F

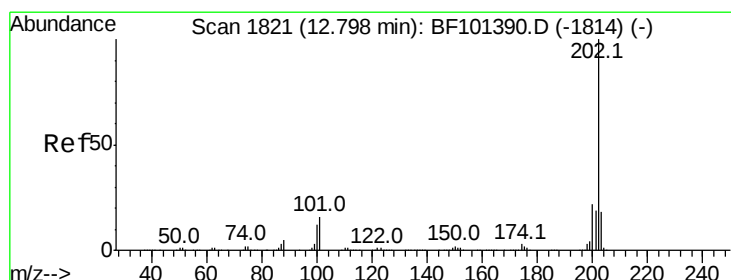
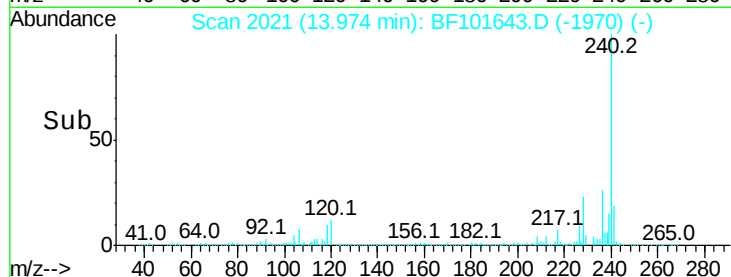
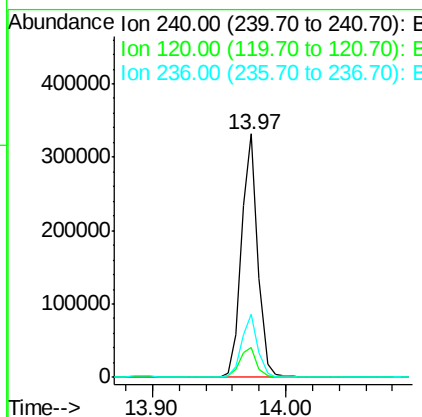
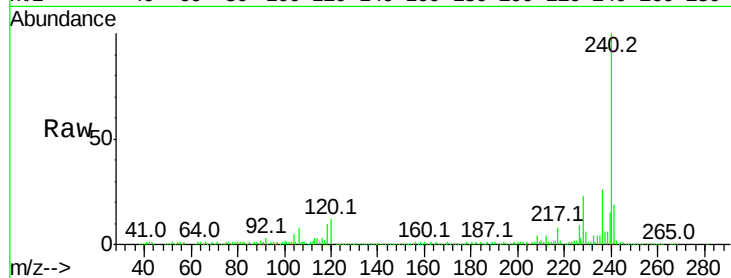
ClientSampleId :

PL-01-121917-DDL

Tot Ion:	240	Resp:	280196
Ion Ratio		Lower	Upper
240	100		
120	12.1	9.5	14.3
236	25.9	20.7	31.1

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#77

Pyrene

Concen: 39.519 ng

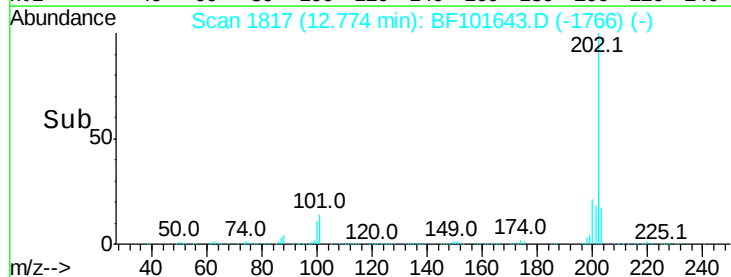
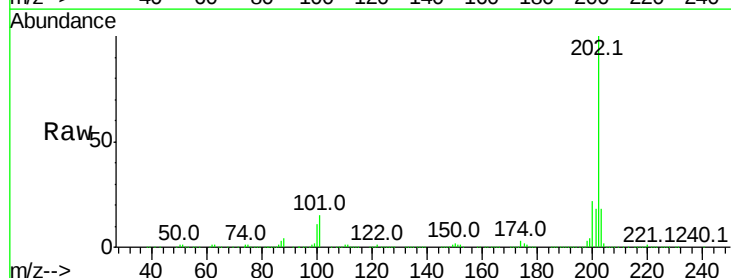
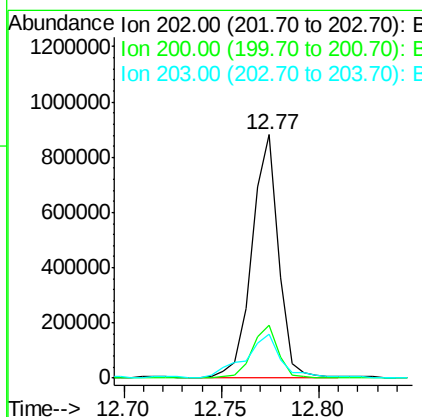
RT: 12.77 min Scan# 1817

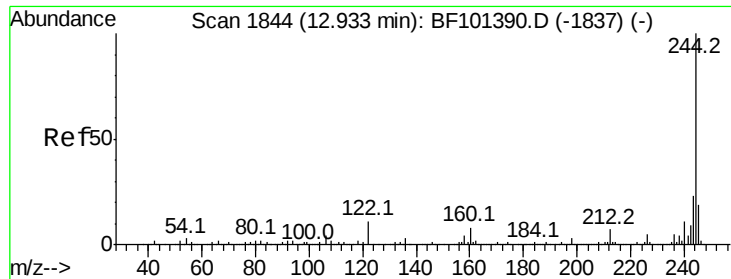
Delta R.T. 0.00 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Tgt Ion:	202	Resp:	831040
Ion Ratio		Lower	Upper
202	100		
200	21.5	17.4	26.2
203	18.0	14.3	21.5





#78

Terphenyl-d14

Concen: 14.526 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.01 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Instrument :

BNA_F

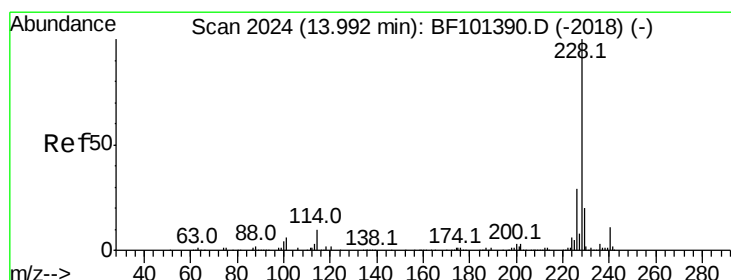
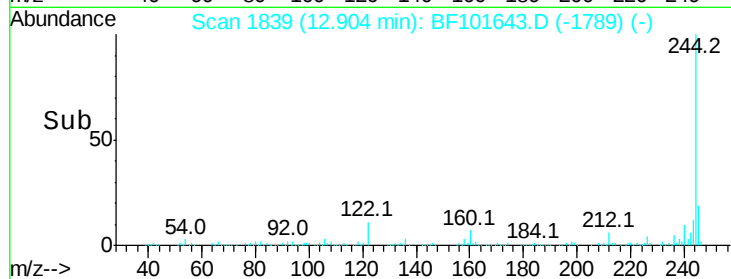
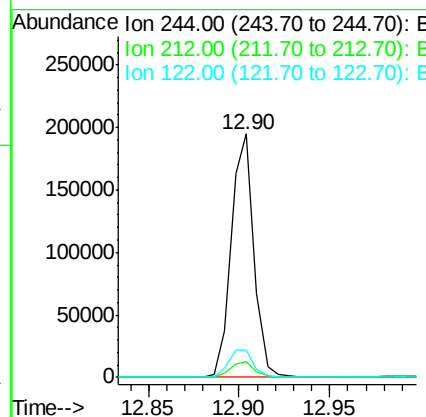
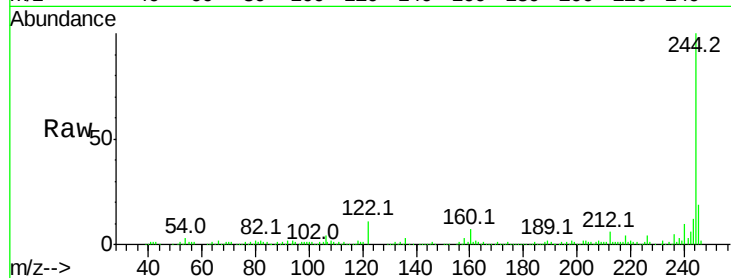
ClientSampleId :

PL-01-121917-DDL

Tot Ion:	244	Resp:	168835
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.4	8.0
122	11.3	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 24.817 ng

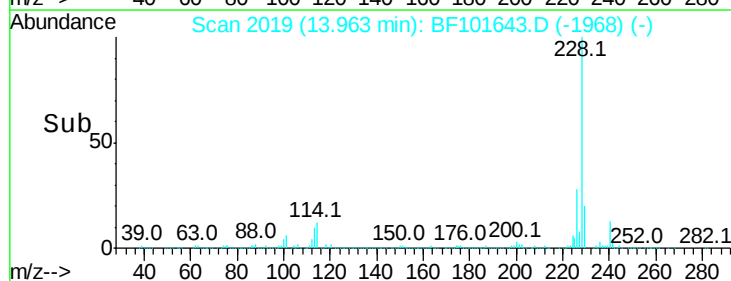
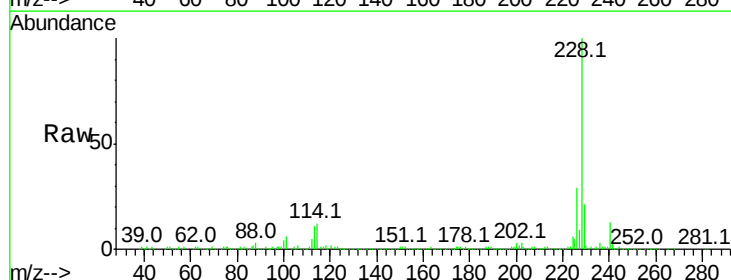
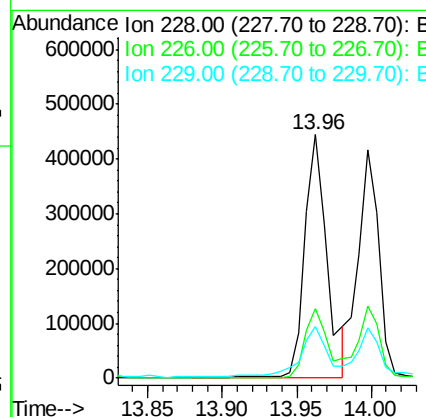
RT: 13.96 min Scan# 2019

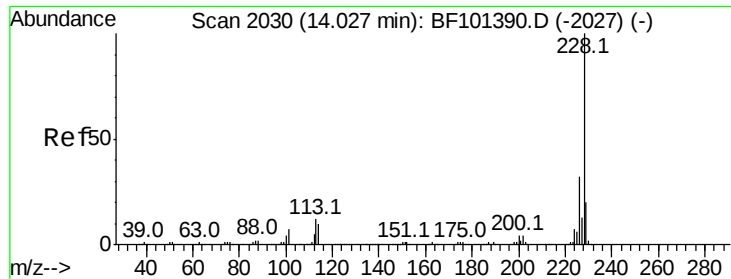
Delta R.T. 0.00 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Tgt Ion:	228	Resp:	459162
Ion Ratio	Lower	Upper	
228	100		
226	28.7	22.6	33.8
229	21.0	15.8	23.6





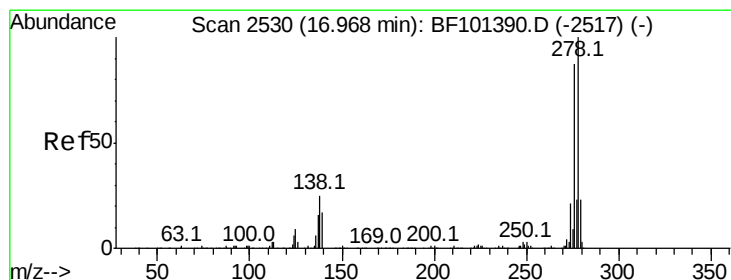
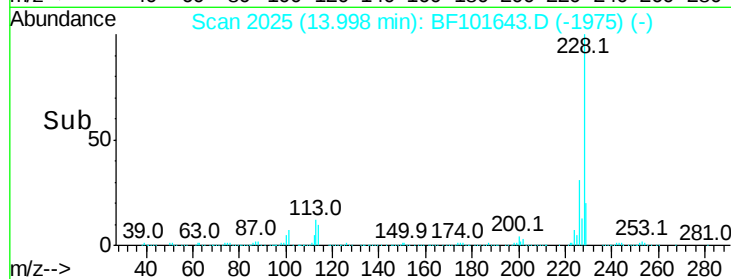
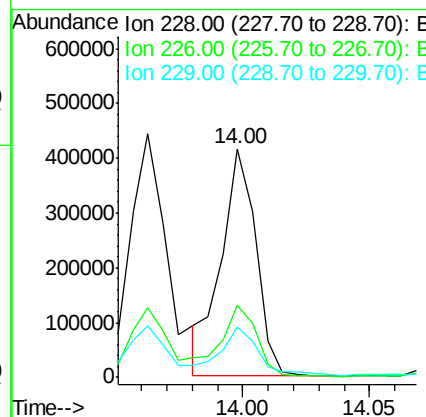
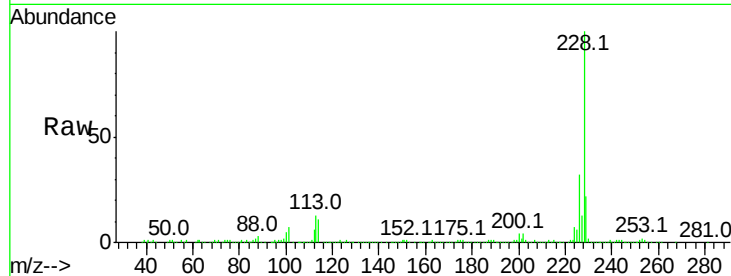
#82
Chrysene
Concen: 22.632 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.01 min
Lab File: BF101643.D
Acq: 22 Dec 2017 8:55

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-DDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.0	37.6
229	21.9	16.2	24.4

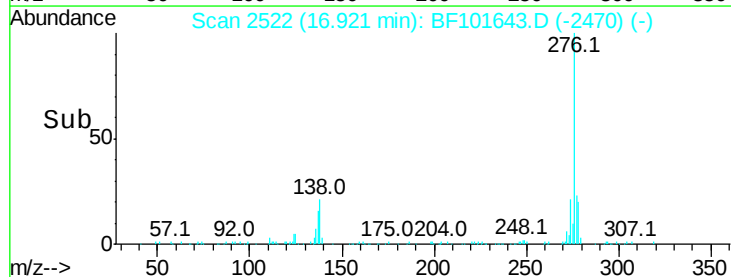
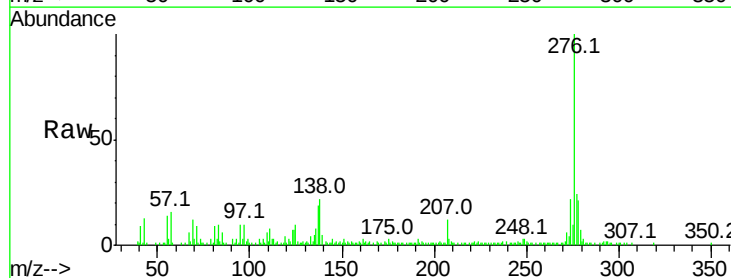
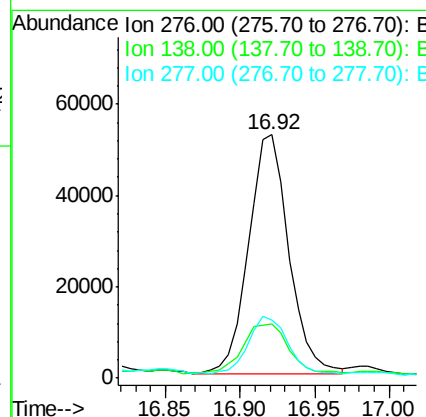
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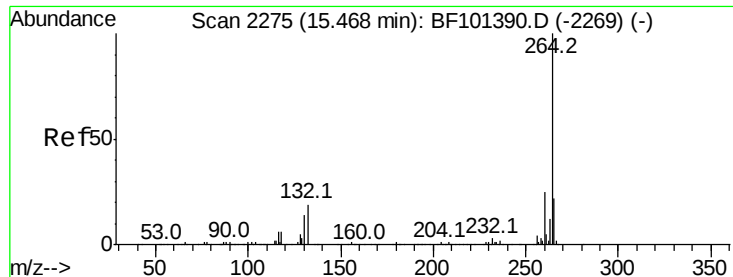
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#85
Indeno(1,2,3-cd)pyrene
Concen: 6.279 ng
RT: 16.92 min Scan# 2522
Delta R.T. 0.01 min
Lab File: BF101643.D
Acq: 22 Dec 2017 8:55

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.2	25.0	37.6#
277	23.4	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2270

Delta R.T. 0.01 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Instrument :

BNA_F

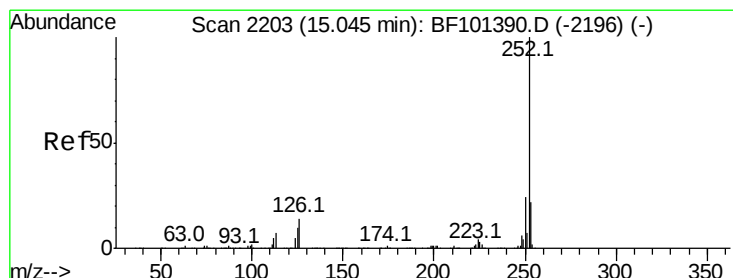
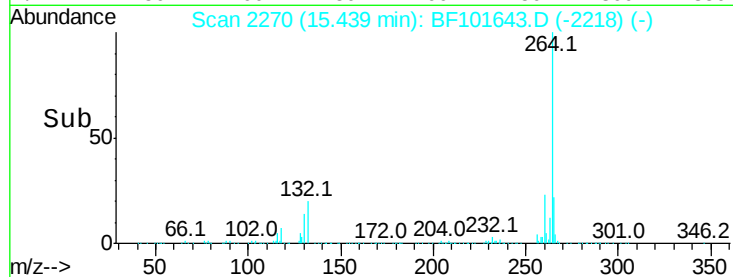
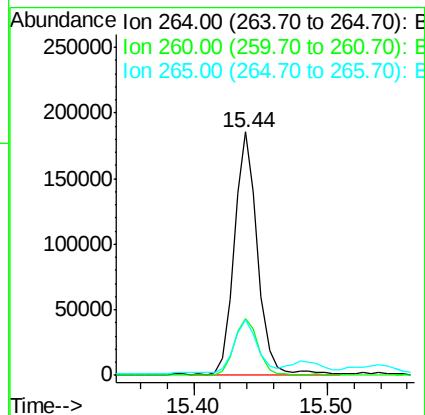
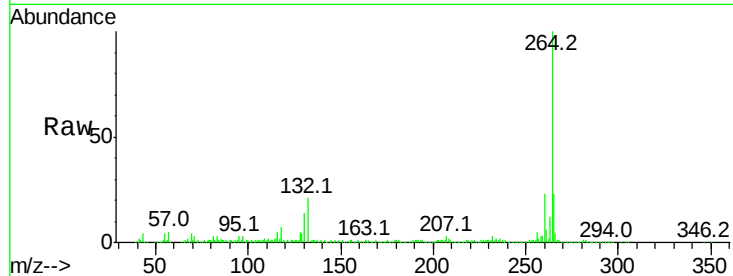
ClientSampleId :

PL-01-121917-DDL

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	23.5	19.2	28.8	
265	22.9	17.5	26.3	

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#87

Benzo(b)fluoranthene

Concen: 25.967 ng m

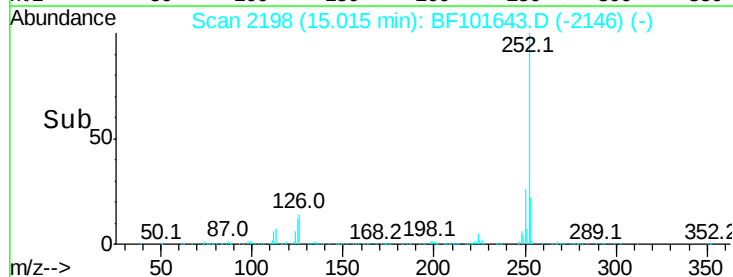
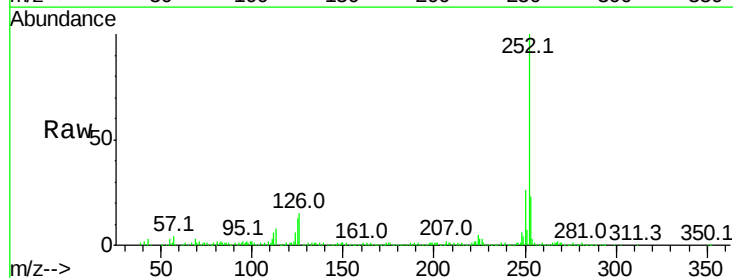
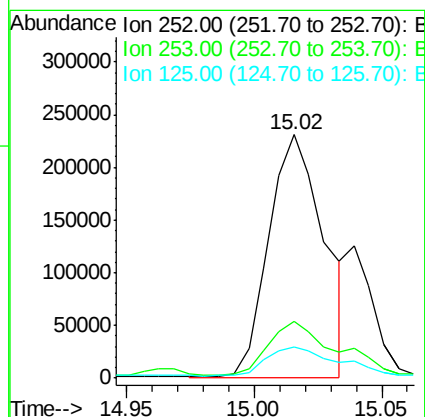
RT: 15.02 min Scan# 2198

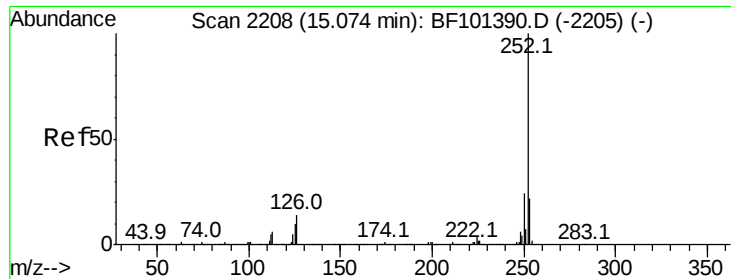
Delta R.T. 0.01 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	23.3	17.0	25.6	
125	13.0	9.0	13.6	





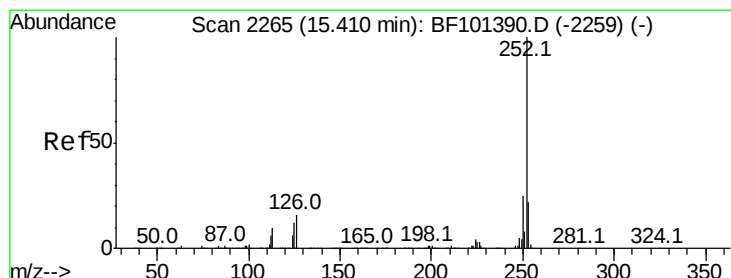
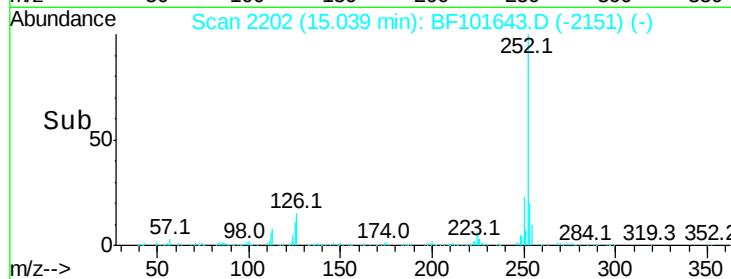
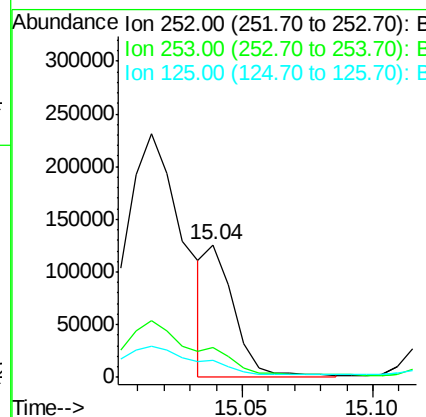
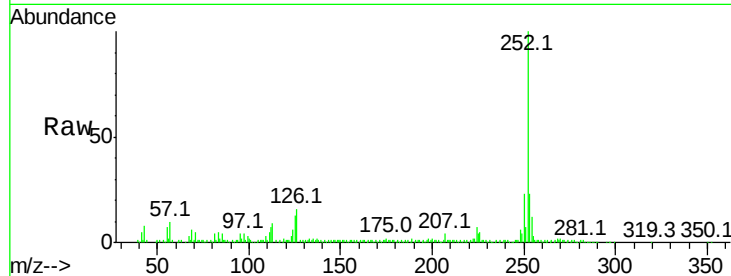
#88
Benzo(k)fluoranthene
Concen: 7.262 ng/mL
RT: 15.04 min Scan# 2202
Delta R.T. 0.00 min
Lab File: BF101643.D
Acq: 22 Dec 2017 8:55

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-DDL

Tot Ion	Ratio	Resp	Lower	Upper
252	100	95420		
253	23.0		17.9	26.9
125	12.6		10.2	15.2

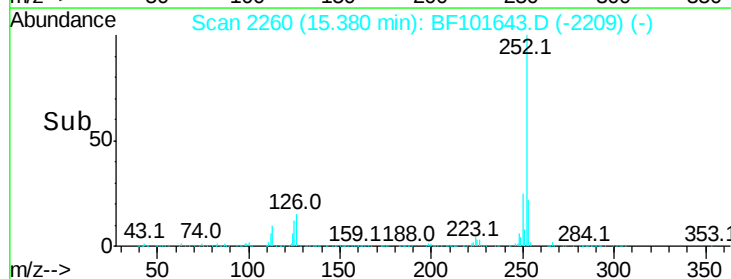
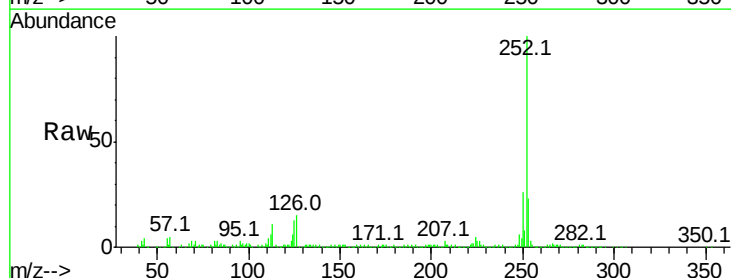
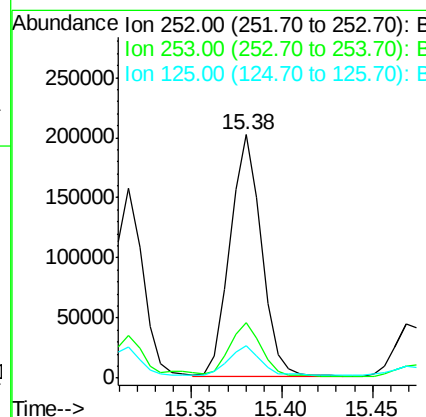
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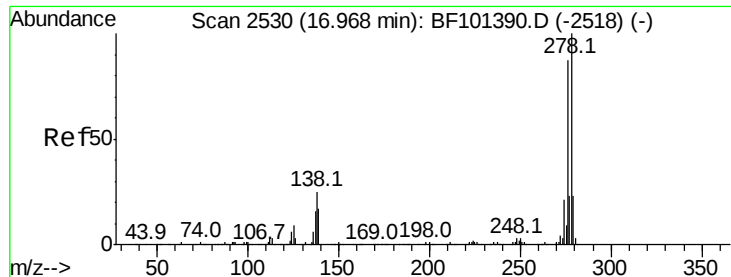
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#89
Benzo(a)pyrene
Concen: 19.528 ng/mL
RT: 15.38 min Scan# 2260
Delta R.T. 0.00 min
Lab File: BF101643.D
Acq: 22 Dec 2017 8:55

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	243293		
253	23.0		17.1	25.7
125	13.2		9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 2.658 ng

RT: 16.91 min Scan# 2520

Delta R.T. 0.00 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Instrument :

BNA_F

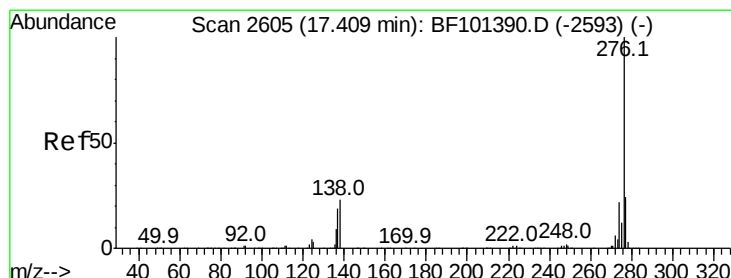
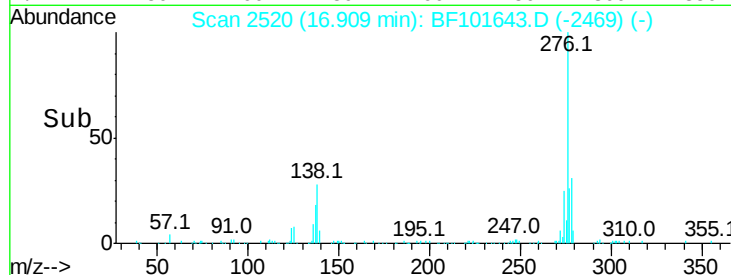
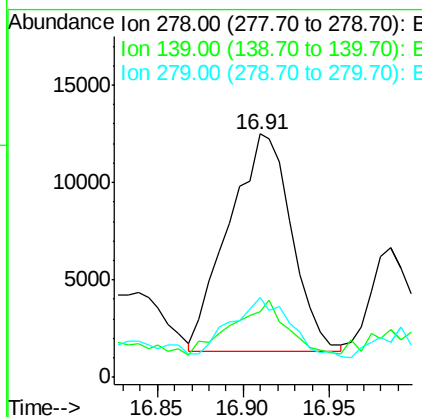
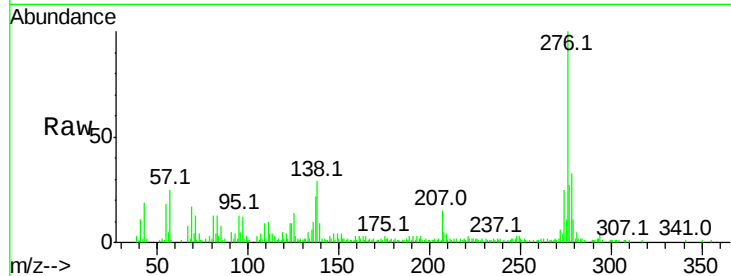
ClientSampleId :

PL-01-121917-DDL

Tot Ion:	278	Resp:	28437
Ion Ratio	Lower	Upper	
278	100		
139	26.9	15.9	23.9#
279	32.6	19.0	28.4#

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#91

Benzo(g,h,i)perylene

Concen: 9.981 ng

RT: 17.37 min Scan# 2598

Delta R.T. 0.02 min

Lab File: BF101643.D

Acq: 22 Dec 2017 8:55

Tgt Ion:	276	Resp:	105714
Ion Ratio	Lower	Upper	
276	100		
277	25.0	17.9	26.9
138	25.6	21.8	32.8

